Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Amended) A method for producing a transgenic cotton plant comprising the steps of:

(a) obtaining cotton petiole explants,

(b) exposing the petiole explants to a culture of *Agrobacterium tumefaciens* that harbors a vector comprising an exogenous gene and a selectable marker, the *Agrobacterium* being capable of effecting the stable transfer of the exogenous gene and selection agent resistance gene to the genome of the cells of the petiole explant,

(c) culturing the petiole explants to induce callus formation,

(d) selecting a transformed callus that expresses the exogenous gene,

(e) culturing the selected callus in suspension culture to induce formation of embryoids, and

(f) regenerating ~~the embryoids into~~ an embryoid to obtain a ~~whole~~ transgenic cotton ~~plants~~ plant.

2. (Amended) The method of claim 1, wherein the petiole explants are pre-cultured for a period of time prior to exposure to the culture of *Agrobacterium tumefaciens*.

3. (Amended) The method of ~~claims~~ claim 1, wherein the culture media used in steps (b)-(e) have glucose as the sole carbon source.

4. (Amended) The method of claim 3, wherein the glucose is ~~in an amount~~ at a concentration of about 10 g/l to about 50 g/l.

5. (Amended) The method of claim 4, wherein the glucose is ~~in an amount~~ at a concentration of about 30 g/l.

6. (Amended) The method of claim 1, wherein the culture media used in steps (b) and (d)-(f) do not contain hormones.

7. (Amended) The method of claim 1, wherein the ~~embryoids~~ embryoid ~~germination~~ regeneration of step (f) is carried out in a medium having a source of nitrogen selected from the group consisting of asparagine, glutamine or both asparagine and glutamine.

8. (Amended) The method of claim 7, wherein the source of nitrogen is ~~in an amount~~ at a concentration of about 700 mg/l to about 5 g/l.

9. (Amended) The method of claim 8, wherein the source of nitrogen is ~~in an amount~~ at a concentration of about 3.8 g/l.

10. (Amended) The method of claim 7, wherein the source of nitrogen is both asparagine and glutamine, and the asparagine is ~~in an amount~~ at a concentration of about 200 mg/l to about 1 g/l and the glutamine is ~~in an amount~~ at a concentration of about 500 mg/l to about 2 g/l.

11. (Amended) The method of claim 10, wherein the asparagine is in an amount of about 500 mg/l and the glutamine is ~~in an amount~~ at a concentration of about 1 g/l.

12. (Amended) The method of claim 1, wherein the suspension culture of step (e) has a duration of less than about 20 days.

13. (Amended) The method of claim 12, wherein the suspension culture of step (e) has a duration of about 10 days to about 20 days.

14. (Amended) The method of claim 13, wherein the suspension culture of step (e) has a duration of about 14 days.

15. (Amended) The method of claim 1, wherein step (c) is carried out in the presence of low ~~concentration~~ concentrations of one or more hormones.

16. (Amended) The method of claim 15, wherein the concentration of any one hormone ~~ranges~~ is from 0 to about 1 mg/l.

17. (Amended) The method of claim 15, wherein step (c) is carried out in the presence of ~~2,4-dichlorophenoxacetic~~ 2,4-dichlorophenoxyacetic acid ~~in~~ at a concentration ~~ranging~~ from 0 to about 0.5 mg/l and kinetin ~~in~~ at a concentration ~~ranging~~ from 0 to about 1 mg/l.

18. (Amended) The method of claim 17, wherein the ~~2,4-dichloro-phenoxylacetic~~ 2,4-dichlorophenoxyacetic acid is ~~in~~ at a concentration of about 0.05 mg/l and the kinetin is ~~in~~ at a concentration of about 0.1 mg/l.